Problem 0. Briefly and clearly report what you have done for Homework Assignment #4.

Problem1

Sudo fdisk –l >after.txt
Sudo fdisk –l >before.txt
Diff after.txt before.txt
We can find it mount on /dev/sdb1

Problem2

Hostname 查看主机名字 Hostnamectl 可用于查询和更改系统主机名和相关设置

sudo hostnamectl set-hostname linuxconfig

修改文件/etc/hosts. 这样重启也依旧是更改后的名字

Problem3

Ssh 连接服务器, 我把 demo_x.c 传输上去. 然后修改成雨伞或者其他图标,display 一下就可以了.

scp -P 11189 -r demo_x.c root@117.93.33.92:/home/data

不用登录 ssh 也可以用 scp 把 demo_x.c 传输到 117.93.33.92 的/home/data/文件夹下,用户 名为 root

```
[root@yishangyun home]# cd ...
[root@yishangyun /]# cd usr
[root@yishangyun usr]# ls
bin etc games include lib lib64 libexec l
[root@yishangyun usr]# cd ..
[root@yishangyun /]# ls
bin boot dev etc home lib lib64 media mn
[root@yishangyun /]# cd home
[root@yishangyun home]# cd data
[root@yishangyun data]# ls
demo_x.c
[root@yishangyun data]#
```

gcc -o main demo_x.c -IX11 编译

修改服务器和客户端的 ssh 配置文件

 xhost +
 //允许服务器的的 x11 界面连接过来

 ssh -P 11189 -X root@117.93.33.92
 //-X 参数表示转发 X11 数据

然后就可以运行程序

xclock



修改代码如下,即可显示雨伞

```
hints.min_width = 16; hints.min_height = 16;
hints.width_inc = hints.height_inc = 16;
hints.flags |= PMaxSize | PMinSize | PResizeInc;
//xswa.cursor = XCreateFontCursor (theDisp, XC_box_spiral);
xswa.cursor = XCreateFontCursor (theDisp, XC_umbrella);
xswamask = CWCursor;
```

Problem4

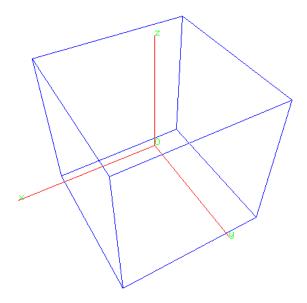
```
luke@linuxconfig:~/tmp$ make
gcc -g -c demo_bit.c
as -o demo_bit_count.o demo_bit_count.s
***demo_bit.o demo_bit_count.o is(are) newer than demo_bit
gcc -g -o demo_bit demo_bit.o demo_bit_count.o
```

the purpose of the result program. : turn the input into hexadecimal number and count how many bits of this number is 1;

problem5

make and display

```
[root@ytshangyun data]# cd cube_wrong/
[root@ytshangyun cube_wrong]# make
gcc -g -c -I /usr/include/X11 -I ./include main.c -o main.o
gcc -g -c -I /usr/include/X11 -I ./include init.c -o init.o
gcc -g -c -I /usr/include/X11 -I ./include readline.c -o readline.o
gcc -g -c -I /usr/include/X11 -I ./include toview.c -o toview.o
gcc -g -c -I /usr/include/X11 -I ./include translate.c -o translate.o
gcc -g -c -I /usr/include/X11 -I ./include cast.c -o cast.o
gcc -g -c -I /usr/include/X11 -I ./include drawline.c -o drawline.o
gcc -g -c -I /usr/include/X11 -I ./include draw_guide.c -o draw_guide.o
gcc -g main.o init.o readline.o toview.o translate.o cast.o drawline.o draw_guide.o
[root@yishangyun cube_wrong]#
```



the reasons for compiling warnings

- 1. don't have the header file
- 2. don't have correct number of arguments

Problem 1. Build 'demo_fork.c' and run it, then try to change the red eyes to 'browse.tcl' and run it again.

通过 C 代码启动 tcl? 错误 1 Gcc demo_fork.c



解决方法:

终端中打开,成功

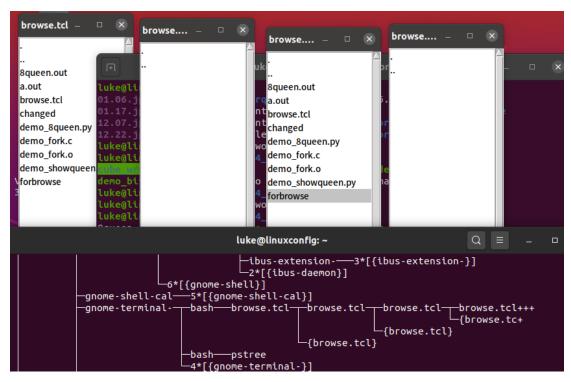
```
文档 Cirq
下载 contain16.t
音乐 contain1and
桌面 filed1.txt
                                                                           filed6.txt
       contain16.txt
                                                                           gem5
homework4 4 5
                                              contain1and6.txt
       luke@linuxconfig:~{ cd homework4_4_5/
luke@linuxconfig:~/homework4_4_5$ ls
a.out browse.tcl demo_fork.c
luke@linuxconfig:~/homework4_4_5$ ./a.out
two eyes cannot be shown together if in one process.
            child
         xeyes – 🗆
                                                                xeyes -
                                                                       demo_fork.c
 1 #include <stdio.h>
 2 #include <unistd.h>
 4 int main()
5 {
                                                                                                                                  browse.tcl -
 6
               int pid;
               printf("two eyes cannot be shown together if in one process.\n");
 8
 9
                                                                                                                                  a.out
              if ((pid = fork()) == 0) {
    printf("in child\n");
    //system("xeyes -fg red +shape");
    system("./browse.tcl");
10
                                                                                                                                  browse.tcl
11
                                                                                                                                  changed
12
13
                                                                                                                                  demo_fork.c
14
              } else if (pid){
                                                                                                                                  demo_fork.o
                          printf("in parent\n");
system("xeyes -fg green +shape");
15
16
17
              } else {
                           fprintf(stderr, "error\n");
18
19
20 }
                                                                                            C ▼ 制表符宽度: 8 ▼ 第13
```

成功把红眼睛改为 browse.tcl'

错误 2: bash: ./browse.tcl: /usr/bin/wish: 解释器错误: 没有那个文件或目录解决方法: apt-get install -y wish ,就可以了.

Invoke more directory browsers from browse.tcl. Use 'pstree' to see the process hierarchy for all of them,

再点击一个目录就可以了 and show the hierarchy with a screenshot.如下图



Problem 2. Run Python scripts of demo_8queen.py and demo_showqueens.py, read the source code, comments and their outputs.

```
(3, 4),
(3, 2),
(3, 4),
(3, 1),
(3, 8),
                                                     2),
3),
3),
                                                                           3),
                               5),
2),
7),
4),
2),
7),
1),
                     (3,
(3,
(3,
(3,
(3,
(3,
          4),
7),
8),
                                                                           8),
                                                                                       (6,
(6,
                                                                           8),
                                                                          4),
5),
                                                                                                8),
2),
                                                                 (5,
(5,
(5,
                                                                                       (6,
(6,
                                                     8),
                                                                                                 2),
(2, 8),
                                                                                       (6,
```

输出到 8queen.out 即可

Then (OPTIONALLY) write a Perl or Python script to analyze the solutions in 8queen.out, and show how many kinds of the solutions are unique.

(symmetrical solutions are not considered as unique, for example, one solution being mirrored or rotated should be eliminated from the unique list)